

9591-170

6/20/2013

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Nationwide Chemical Products, Inc.
c/o Ms. Sharon Johnston, Esq.
RegGuide
509 Tower Valley Drive
Hillsboro, MO 63050

JUN 20 2013

Dear Ms. Johnston:

Subject: Amendment: Split into residential and commercial/occupational sub-labels
Prokill Choice Insecticide
EPA Reg. No. 9591-170
Your submission dated September 18, 2012

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) section 3(c)(7)(a), is acceptable and a stamped copy of the label is enclosed for your records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10), or durably marked on the container itself.

If you have any questions regarding this letter, please contact Dana Pilitt, PhD of my staff at (703) 305-7071 or via e-mail at pilitt.dana@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard Gebken".

Richard Gebken
Product Manager 10
Insecticide Branch
Registration Division (7505P)

9591-170 D 477537

SUB-LABEL A – RESIDENTIAL USE

PROKILL® CHOICE INSECTICIDE

- For Residential/Domestic Use
- [Water-Based Permethrin Insecticide
- Odorless in Application
- A Ready-To-Use and Dilutable Permethrin-Based Emulsion Insecticide
- Makes up to 32 Gallons
- For Use Outdoors in Gardens, on Ornamental Trees, Shrubs and Flowers
- For Use Outdoors
- Will Not Stain Water-Safe Fabrics and Surfaces
- For Use Indoors and Outdoors on listed Crawling and Flying Insects
- For Use on Dogs to Control Fleas and Ticks
- Controls Fleas and Ticks on Dogs for 14 Days
- For Control of Ticks which may cause Lyme disease on Premises
- Provides 60-Day (Two Months) Control of Cockroaches, Fleas and Stored Product Pests
- Multi-Purpose, Ready-To-Use, Water-Based Bug Killer
- Do-It-Yourself Pest Control
- Easy to Use - Just Spray Affected Areas
- Use Indoors and Outdoors - Broad Spectrum Insecticide for Control of Cockroaches, Mosquitoes, Ants, Spiders, Flies, Moths, Fleas, Lice, Bedbugs, Crickets, Grasshoppers and other Listed Pests
- No Odor - Non-Staining - No Sticky Residue
- Kills Crawling Insects, Including Cockroaches, Ants, Fire Ants, Fleas, Spiders, Ticks, Lice, Silverfish, Earwigs, Beetles, Bedbugs, Crickets and More!
- Kills Flying Insects, Including Flies, Moths, Mosquitoes, Gnats, Hornets, Wasps, Black Flies and More
- For Use on Mattresses & Furniture
- Lice Control Spray in a Non-Aerosol Bottle
- Pet Spray for Dogs to Control Fleas, Ticks and Lice
- Lawn & Garden Insect Control
- (lice control products only - NOT FOR USE ON HUMANS)

ACCEPTED
JUN 20 2013
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 9591-170

ACTIVE INGREDIENT:

Permethrin¹ 0.50%

OTHER INGREDIENTS: 99.50%

100.00%

¹ Cis/trans ratio: max. 35% (+/-) cis and min. 65% (+/-) trans.

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.
(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

EPA REG. NO. 9591-170

EPA EST. NO.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See rear panel for additional precautions.

NET CONTENTS:

**READ ENTIRE LABEL BEFORE EACH USE
PET USE APPLIES TO USE ONLY ON DOGS**

**PRECAUTIONARY STATEMENTS
Environmental Hazards**

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

USE RESTRICTIONS:

Except when applying to dogs, do not enter or allow others to enter until sprays have dried.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Remove pets and birds and cover fish aquaria before surface applications. Do not use on humans.

SHAKE WELL BEFORE USING

Do not use on electrical equipment or on surfaces that can be harmed or stained by water.

INDOOR APPLICATION

Do not apply as a broadcast treatment to indoor surfaces at residential sites. Apply only as baseboard, crack and crevice or spot treatments. Do not use as a space spray indoors. In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Cover or remove exposed food/feed.

Ready to use. Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container.

SURFACE SPRAYING:

For control of *Cockroaches, Waterbugs, Palmetto Bugs, Scorpions, Millipedes, Centipedes, Sowbugs, Pillbugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Drugstore Beetles, Meal Worms, Grain Mites and Cadelles*: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For *silverfish*, spray bookcases. For *ants*, spray trails, nests and points of entry.

To control *Carpet Beetles*: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

To control *Bedbugs*: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Allow all treated articles to dry thoroughly before use.

To control *Fleas* (adults and larvae) and *Ticks*, including Ticks which may carry Lyme disease (adults and larvae): Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frame, and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Allow to dry thoroughly before allowing pets to contact treated areas.

To control *Clothes Moths*: Remove any infested articles from storage, brush thoroughly, and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

To kill *Lice* and *Louse Eggs*: Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry cleaned. Allow all treated articles to dry thoroughly before use.

ON DOGS:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container. To control *Fleas, Ticks, and Lice*: Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray will penetrate to the skin. Make sure spray wets thoroughly, but do not saturate animal. Do not spray into eyes or face. Avoid contact with genitalia. Use protective gloves or mitts when applying product. Repeat application every two weeks if necessary. **DO NOT USE ON CATS OR KITTENS.** Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue,

consult a veterinarian immediately.

OUTDOOR APPLICATION

Not for use in outdoor residential misting systems.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) Treatment to soil or vegetation around structures; 2) Applications to lawns, turf and other vegetation; 3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and crack-and-crevice applications, only.

Do not water the treated area to the point of runoff. Do not make applications during rain.

TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT): Ready-to-use. Affix trigger, pump or other type of sprayer to container for application Do not transfer to another container.

Use this product as a residual treatment to control *Ticks* including the *Deer Tick (Ixodes scapularis)*, *Lone Star Tick (Amblyomma americanum)*, *Brown Dog Tick (Rhipicephalus sanguineus)*, *American Dog Tick (Dermacentor variabilis)* and *Western Black-legged Tick (Ixodes pacificus)*. For each area listed below, apply until surface is wet (approximately 1 gal/750-1000 ft²).

Treat around windows and doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may enter.

Treat a band of vegetation and leaf litter 6 to 10 feet wide around the outside of buildings to help control ticks occurring there.

To help control ticks in outdoor activity areas, treat a band of vegetation and leaf litter 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

PESTS ON THE OUTDOOR SURFACE OF BUILDINGS: To temporarily control *Houseflies*, *Mosquitoes*, *Cluster Flies*, *Gnats* and *Flying Moths*. For outdoor use only as an aid in reducing annoyance from these insects.

Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Using dilute mixture, spray pests on outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages and other places where these insects alight or congregate. Flush sprayer with clean water after each use.

FOR CONTROL OF ORNAMENTAL GARDEN INSECTS:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Do not transfer to another container. [OR Insert canister into the fertigation system in the slot marked "insecticide". Attach hoses with clamps. Turn valve to on position. Product will automatically dispense at the desired application rate.]

For use on roses, dahlias, asters and other ornamentals to kill Japanese Beetles hit by spray as well as *Whiteflies*, *Aphids*, *Exposed Thrips*, *Spiders*, *Red Mites* and *Leafminers*. May be used on plants as a multipurpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, Eunonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jews and zinnias.

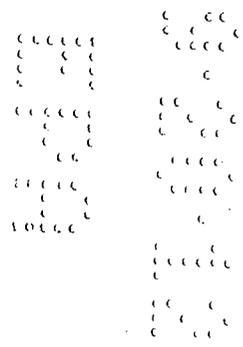
Effective when used as directed against *Whiteflies*, *Aphids*, *Spider and Red Mites*, *Exposed Thrips*, *Lace Bugs*, *Japanese Beetles*, *Pavement Ants*, *Clover Mites* and *Armyworms*. When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible.

ORNAMENTAL TREES AROUND THE HOME: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. [OR pour undiluted product into fertigation canister. Product will automatically dilute with the required amount of water.] Using dilute mixture, use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: *Ash Borer* on Ash; *Pine Moths*, *Pine Needle Miners*, *Pine Beetles* and *Needle Scales* on pine; *Budworms* on conifers; *Oakworms* on oak; *Fall Webworms* on cherry, elm and honeysuckle; *Aphids* on tulip poplar; *Citrus black flies* on non-bearing citrus; *Tussock Moths* on Douglas and grand firs; *Leafminers* on birch; *Elm Leaf Beetles* and *Elm Spanworms* on elms. Flush sprayer with clean water after each use.

FOR HOME VEGETABLE GARDENS: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Spray upper and lower leaf surface as directed. Use sufficient spray to obtain full coverage of all foliage, but do not spray to the point of runoff. Apply no more than 13 ounces of dilute mixture over 100 linear feet of row (13 ounces of diluted mixture per 100 square feet.) Flush sprayer with clean water after each use.

VEGETABLE	TARGET PESTS	REMARKS
Asparagus (pre-harvest)	Cutworms asparagus beetle	Spray plants as needed to ensure uniform coverage. Apply every 7 days as needed. Do not make more than 4 applications per season. Can be applied up to 3 days prior to harvest.

Asparagus (post-harvest)	Larval stages of asparagus beetle tarnished plant bugs lygus bugs and adult Japanese beetles	Treat fern or bush growth after spear harvest when insects are present.
Celery - see leafy vegetables		
Cole Crops: Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Beet armyworm; diamond back moth; imported cabbage-worm; cabbage aphid, cabbage looper	Apply every 5 days as needed. Can be applied up one day prior to harvest. Do not make more than 10 applications on cabbage and 8 applications on the other cole crops.
Corn - see sweet corn		
Cucurbits: Balsam pear(bitter melon), Chinese waxgourd (Chinese melon), Citrus melon, cucumber, Gherkin, Edible gourds, Melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, and Persian melon, pumpkin, summer & winter squash, watermelon	Aphids, cabbage loopers, cucumber beetles (adults), cutworms, leafhoppers, leafminers melonworms, pickleworms, plant bugs and squash bugs.	Apply every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 8 applications per crop. Can be applied up to the day of harvest.
Eggplant beetles, vegetable leaf miners	Colorado potato	Apply every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 16 applications. Can be applied up to 3 days prior to harvest.
Horseradish	Imported crucifer weevils	Apply every 10 days as needed. Do not make more than 3 foliar applications. Can be applied up to 22 days prior to harvest.
Leafy Vegetables: amaranth, arrugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dick, endive, fennel, lettuce (head & leaf), orach, parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	Alfalfa loopers, aphids, beet armyworms, cabbage loopers, corn earworms, cutworms, European corn borers, fall armyworm, green cloverworms, southern armyworms, tobacco budworms, vegetable leaf miners.	Spray every 7 days as needed. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Melons - see Cucurbits		
Potatoes	Beet armyworms, Colorado potato beetles, potato beetles, potato leafhoppers, potato aphids, potato tuberworms, cabbage loopers, cutworms,	Spray plants every 10 days as needed. Do not make more than 12 applications. Can be applied up to 7 days prior to harvest.



	European corn borers, potato psyllids, tarnished plant bugs	
Peppers	Vegetable leafminers, cabbage loopers, flea beetles, corn earworms, pepper weevils, European corn borers	Spray plants every 5 days as needed. Do not make more than 8 applications. Can be applied up to 3 days prior to harvest.
Sweet Corn	Corn earworms, European corn borers, fall armyworms, southern armyworms	Spray plants every 3 days as needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not spray on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter)	Beet and southern armyworms, tomato pinworms, tomato fruitworms, hornworms, granulate cutworms, Colorado potato beetles, cabbage loopers	Spray plants every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 6 applications per season. Can be applied up to date of harvest.

HOME OWNER GROWN FRUIT AND NUT TREES: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Apply dilute mixture to trees until foliage is dripping wet. Make sure to spray the undersides of leaves and into dense foliage. Flush sprayer with clean water after each use.

Trees (Fruit or Nut)	Target Pest(s)	Remarks
Almonds	Navel orange worms, peach twig borers	Apply every 10 days as needed when insects appear. Do not make more than 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	plum curculio, red-banded leafrollers, rosyapple aphids, spotted tentiform leafminers, tarnished bugs, white apple leafhoppers, oblique-banded leafrollers, green fruitworms.	Apply every 10 days as needed when insects appear. Do not make more than 3 applications per season.
Peaches	Lesser peachtree borers, peach twig borers, plum curculio, plant bugs, green fruit worms, Oriental fruit moths	Apply every 10 days as needed when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears	pear psylla, green fruitworms and codling moths.	Apply every 10 days as needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.
Pesticide Storage: Store in a cool, dry area away from children and pets.
Pesticide Disposal and Container Handling: **If empty:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.
If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Nationwide Chemical Products. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

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DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NATIONWIDE CHEMICAL PRODUCTS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Nationwide Chemical Products is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent permitted by law, Nationwide Chemical Products disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT NATIONWIDE CHEMICAL PRODUCTS' ELECTION, THE REPLACEMENT OF PRODUCT.

Nationwide Chemical Products
2075 Starr Avenue
Toledo, OH 43605

For information on pesticide products (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

SUB-LABEL A – COMMERCIAL/OCCUPATIONAL USE

PROKILL® CHOICE INSECTICIDE

- *For Commercial/Occupational Use*
- *[Water-Based Permethrin Insecticide*
- *Odorless in Application*
- *A Ready-To-Use and Dilutable Permethrin-Based Emulsion Insecticide*
- *Makes up to 32 Gallons*
- *For Use Outdoors in Gardens, on Ornamental Trees, Shrubs and Flowers*
- *For Use Outdoors*
- *Will Not Stain Water-Safe Fabrics and Surfaces*
- *For Use Indoors and Outdoors on listed Crawling and Flying Insects*
- *For Use on Dogs to Control Fleas and Ticks*
- *For Use on Poultry to Control Lice and Mites*
- *Controls Fleas and Ticks on Dogs for 14 Days*
- *For Control of Ticks which may cause Lyme disease on Premises*
- *Provides 60-Day (Two Months) Control of Cockroaches, Fleas and Stored Product Pests*
- *Multi-Purpose, Ready-To-Use, Water-Based Bug Killer*
- *Easy to Use - Just Spray Affected Areas*
- *Use Indoors and Outdoors - Broad Spectrum Insecticide for Control of Cockroaches, Mosquitoes, Ants, Spiders, Flies, Moths, Fleas, Lice, Bedbugs, Crickets, Grasshoppers and other Listed Pests*
- *No Odor - Non-Staining - No Sticky Residue*
- *Kills Crawling Insects, Including Cockroaches, Ants, Fire Ants, Fleas, Spiders, Ticks, Lice, Silverfish, Earwigs, Beetles, Bedbugs, Crickets and More!*
- *Kills Flying Insects, Including Flies, Moths, Mosquitoes, Gnats, Hornets, Wasps, Black Flies and More*
- *For Use on Mattresses & Furniture*
- *Lice Control Spray in a Non-Aerosol Bottle*
- *Pet Spray for Dogs to Control Fleas, Ticks and Lice*
- *Lawn & Garden Insect Control*
- *For Livestock and Premise Use*
- *(lice control products only - NOT FOR USE ON HUMANS)*

ACTIVE INGREDIENT:

Permethrin ¹	0.50%
OTHER INGREDIENTS:	<u>99.50%</u>
	100.00%

¹ Cis/trans ratio: max. 35% (+/-) cis and min. 65% (+/-) trans.

PRECAUCION AL CONSUMIDOR: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.
(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

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**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See rear panel for additional precautions.

NET CONTENTS:

9/14

READ ENTIRE LABEL BEFORE EACH USE
PET USE APPLIES TO USE ONLY ON DOGS

PRECAUTIONARY STATEMENTS

Environmental Hazards

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Personal Protective Equipment:

Mixers, loaders, applicators and other handlers must wear:

- long-sleeve shirt and long pants,
- chemical-resistant gloves made of any water proof material
- shoes plus socks

In addition to the above PPE, applicators using high-pressure hand-wand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval prefix TC-21C or any N, R, P or HE filter.

User Safety Requirements:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent material that have been drenched or heavily contaminated with this product. Do not reuse them.

User Safety Recommendations:

User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

USE RESTRICTIONS:

Except when applying to dogs and livestock, do not enter or allow others to enter until sprays have dried.

Except when applying to dogs and livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Product must not be used in dairy barns or facilities.

Remove pets and birds and cover fish aquaria before surface applications. Do not use on humans.

Do not use in food areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held.

May be applied in non-food/feed areas. Non-food/feed establishment areas are areas such as garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after canning or bottling).

Do not apply as a broadcast treatment to indoor surfaces at residential sites, including nurseries, daycare centers, schools, hospitals and nursing homes. Apply only as baseboard, crack and crevice or spot treatments. Do not use as a space spray indoors.

Do not use in aircraft cabins.

Do not use on electrical equipment or on surfaces that can be harmed or stained by water.

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use.

Remove or cover exposed food and drinking water before application.

Do not contaminate animal feed or water during application.

Not for use in indoor or outdoor residential misting systems.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes. Not for use in commercial greenhouses, nurseries, on sod farms or grass grown for seed.

SHAKE WELL BEFORE USING

Do not use on electrical equipment or on surfaces that can be harmed or stained by water.

INDOOR APPLICATION

Ready to use. Affix trigger, pump or other type sprayer to container for application. Or transfer to pump-up or other type of sprayer for application.

SURFACE SPRAYING:

For control of *Cockroaches, Waterbugs, Palmetto Bugs, Scorpions, Millipedes, Centipedes, Sowbugs, Pillbugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Drugstore Beetles, Meal Worms, Grain Mites and Cadelles*: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For *silverfish*, spray bookcases. For *ants*, spray trails, nests and points of entry.

To control *Carpet Beetles*: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

To control *Bedbugs*: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Allow all treated articles to dry thoroughly before use.

To control *Fleas* (adults and larvae) and *Ticks*, including Ticks which may carry Lyme disease (adults and larvae): Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Allow to dry thoroughly before allowing pets to contact treated areas.

To control *Clothes Moths*: Remove any infested articles from storage, brush thoroughly, and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

To kill *Lice* and *Louse Eggs*: Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry cleaned. Allow all treated articles to dry thoroughly before use.

ON LIVESTOCK:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Or transfer to pump-up or other type of sprayer for application.

TO PROTECT CATTLE (BEEF AND DAIRY), GOATS, SHEEP, HOGS AND HORSES FROM *HORN FLIES, FACE FLIES, HOUSE FLIES, MOSQUITOES* AND *GNATS*: Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

To control *Stable Flies, Horse Flies* and *Deer Flies*: Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

To control *Blood-sucking Lice*: Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

To control *Poultry Lice*: Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist. To control *Bedbugs* and *Mites* in poultry houses: Spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

ON DOGS:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Or transfer to pump-up or other type of sprayer for application. To control *Fleas, Ticks*, and *Lice*: Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire

body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray will penetrate to the skin. Make sure spray wets thoroughly, but do not saturate animal. Do not spray into eyes or face. Avoid contact with genitalia. Use protective gloves or mitts when applying product. Repeat application every two weeks if necessary. DO NOT USE ON CATS OR KITTENS. Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

OUTDOOR APPLICATION

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses: 1) Treatment to soil or vegetation around structures; 2) Applications to lawns, turf and other vegetation; 3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and crack-and-crevice applications, only.

Do not water the treated area to the point of runoff. Do not make applications during rain.

TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT): Ready-to-use. Affix trigger, pump or other type of sprayer to container for application Or transfer to pump-up or other type of sprayer for application. Use this product as a residual treatment to control *Ticks* including the *Deer Tick (Ixodes scapularis)*, *Lone Star Tick (Amblyomma americanum)*, *Brown Dog Tick (Rhipicephalus sanguineus)*, *American Dog Tick (Dermacentor variabilis)* and *Western Black-legged Tick (Ixodes pacificus)*. For each area listed below, apply until surface is wet (approximately 1 gal/750-1000 ft).

Treat around windows and doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may enter.

Treat a band of vegetation and leaf litter 6 to 10 feet wide around the outside of buildings to help control ticks occurring there.

To help control ticks in outdoor activity areas, treat a band of vegetation and leaf litter 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

PESTS ON THE OUTDOOR SURFACE OF BUILDINGS: To temporarily control *Houseflies, Mosquitoes, Cluster Flies, Gnats* and *Flying Moths*. For outdoor use only as an aid in reducing annoyance from these insects.

Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Using dilute mixture, spray pests on outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages and other places where these insects alight or congregate. Flush sprayer with clean water after each use.

FOR CONTROL OF ORNAMENTAL GARDEN INSECTS:

Ready to use. Affix trigger, pump or other type of sprayer to container for application. Or transfer to pump-up or other type of sprayer for application. [OR Insert canister into the fertigation system in the slot marked "insecticide". Attach hoses with clamps. Turn valve to on position. Product will automatically dispense at the desired application rate.]

For use on roses, dahlias, asters and other ornamentals to kill Japanese Beetles hit by spray as well as *Whiteflies, Aphids, Exposed Thrips, Spiders, Red Mites* and *Leafminers*. May be used on plants as a multipurpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, Eunonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jews and zinnias.

Effective when used as directed against *Whiteflies, Aphids, Spider and Red Mites, Exposed Thrips, Lace Bugs, Japanese Beetles, Pavement Ants, Clover Mites* and *Armyworms*. When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible.

ORNAMENTAL TREES AROUND THE HOME: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. [OR pour undiluted product into fertigation canister. Product will automatically dilute with the required amount of water.] Using dilute mixture, use sufficient spray to obtain full coverage of all foliage. Avoid heavy wetting. Use to control: *Ash Borer* on Ash; *Pine Moths, Pine Needle Miners, Pine Beetles* and *Needle Scales* on pine; *Budworms* on conifers; *Oakworms* on oak; *Fall Webworms* on cherry, elm and honeysuckle; *Aphids* on tulip poplar; *Citrus black flies* on non-bearing citrus; *Tussock Moths* on Douglas and grand firs; *Leafminers* on birch; *Elm Leaf Beetles* and *Elm Spanworms* on elms. Flush sprayer with clean water after each use.

FOR HOME VEGETABLE GARDENS: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Spray upper and lower leaf surface as directed. Use sufficient spray to obtain full coverage of all foliage, but do not spray to the point of runoff. Apply no more than 13 ounces of dilute mixture over 100 linear feet of row (13 ounces of diluted mixture per 100 square feet.) Flush sprayer with clean water after each use.

VEGETABLE	TARGET PESTS	REMARKS
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Asparagus (pre-harvest)	Cutworms asparagus beetle	Spray plants as needed to ensure uniform coverage. Apply every 7 days as needed. Do not make more than 4 applications per season. Can be applied up to 3 days prior to harvest.
Asparagus (post-harvest)	Larval stages of asparagus beetle tarnished plant bugs lygus bugs and adult Japanese beetles	Treat fern or bush growth after spear harvest when insects are present.
Celery - see leafy vegetables		
Cole Crops: Broccoli, Brussels Sprouts, Cabbage, Cauliflower	Beet armyworm; diamond back moth; imported cabbage- worm; cabbage aphid, cabbage looper	Apply every 5 days as needed. Can be applied up one day prior to harvest. Do not make more than 10 applications on cabbage and 8 applications on the other cole crops.
Corn - see sweet corn		
Cucurbits: Balsam pear(bitter melon), Chinese waxgourd (Chinese melon), Citrus melon, cucumber, Gherkin, Edible gourds, Melons including hybrids such as cantaloupe, casaba, crenshaw, honeydew, honey balls, mango melon, muskmelon, and Persian melon, pumpkin, summer & winter squash, watermelon	Aphids, cabbage loopers, cucumber beetles (adults), cutworms, leafhop- pers, leafminers melonworms, pickleworms, plant bugs and squash bugs.	Apply every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 8 applications per crop. Can be applied up to the day of harvest.
Eggplant beetles, vegetable leaf miners	Colorado potato	Apply every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 16 applications. Can be applied up to 3 days prior to harvest.
Horseradish	Imported crucifer weevils	Apply every 10 days as needed. Do not make more than 3 foliar applications. Can be applied up to 22 days prior to harvest.
Leafy Vegetables: amaranth, arrugula, celery, celtuce, chervil, corn salad, chrysanthemum (edible-leaved and garland), cress (garden and upland), dandelion, dick, endive, fennel, lettuce (head & leaf), orach, parsley, purslane (garden and winter), rhubarb, spinach, Swiss chard	Alfalfa loopers, aphids, beet army- worms, cabbage loopers, corn earworms, cutworms, European corn borers, fall armyworm, green cloverworms, southern armyworms, tobacco budworms, vegetable leaf miners.	Spray every 7 days as needed. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Melons - see Cucurbits		
Potatoes	Beet armyworms, Colorado potato beetles, potato beetles, potato	Spray plants every 10 days as needed. Do not make more than 12 applications. Can be applied up to 7 days prior to harvest.

	leafhoppers, potato aphids, potato tuberworms, cabbage loopers, cutworms, European corn borers, potato psyllids, tarnished plant bugs	
Peppers	Vegetable leafminers, cabbage loopers, flea beetles, corn earworms, pepper weevils, European corn borers	Spray plants every 5 days as needed. Do not make more than 8 applications. Can be applied up to 3 days prior to harvest.
Sweet Corn	Corn earworms, European corn borers, fall armyworms, southern armyworms	Spray plants every 3 days as needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes (Do not spray on cherry tomatoes and varieties yielding tomatoes less than one inch in diameter)	Beet and southern armyworms, tomato pinworms, tomato fruitworms, hornworms, granulate cutworms, Colorado potato beetles, cabbage loopers	Spray plants every 7 days as needed. Spray plants to ensure uniform coverage. Do not make more than 6 applications per season. Can be applied up to date of harvest.

HOME OWNER GROWN FRUIT AND NUT TREES: Dilute before using. Use clean sprayer. Carefully measure and mix 1 fluid ounce of this product and 24 fluid ounces of water. Apply dilute mixture to trees until foliage is dripping wet. Make sure to spray the undersides of leaves and into dense foliage. Flush sprayer with clean water after each use.

Trees (Fruit or Nut)	Target Pest(s)	Remarks
Almonds	Navel orange worms, peach twig borers	Apply every 10 days as needed when insects appear. Do not make more than 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	plum curculio, red-banded leafrollers, rosyapple aphids, spotted tentiform leafminers, tarnished bugs, white apple leafhoppers, oblique-banded leafrollers, green fruitworms.	Apply every 10 days as needed when insects appear. Do not make more than 3 applications per season.
Peaches	Lesser peachtree borers, peach twig borers, plum curculio, plant bugs, green fruit worms, Oriental fruit moths	Apply every 10 days as needed when insects appear. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears	pear psylla, green fruitworms and codling moths.	Apply every 10 days as needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage: Store in a cool, dry area away from children and pets.

Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times, then offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

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